

## **METHODS AND APPARATUS FOR ENHANCING CARDIAC PACING**

### **ABSTRACT OF THE DISCLOSURE**

Methods, apparatus and systems for enhancing cardiac pacing generally provide for measuring at least one cardiac characteristic, calculating at least one cardiac performance parameter based on the measured characteristic(s), and adjusting at least one functional parameter of a cardiac pacing device. Devices may include at least one catheter (such as a multiplexed catheter with one or more sensors and/or actuators), at least one implant (such as a sensor implantable in a heart wall), or a combination of both. Various cardiac performance parameters and/or pacing device performance parameters may be weighted, and the parameters and their respective weights may be used to determine one or more adjustments to be made to the pacing device. In some instances, the adjustments are made automatically.

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